TEJUS
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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	22.12.18
		Date of Testing	22.12.18

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	285	285	2.85	97.15	95 - 100
10.00 mm	4865	5150	51.50	48.50	25 - 55
4.75 mm	4235	9385	93.85	6.15	0 - 10
Pan	615	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	At Site/Plant	Date of Sampling	22.12.18
		Date of Testing	22.12.18

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	570	570	5.70	94.30	90-100
10.0	3568	4138	41.38	58.62	40-85
4.75	5200	9338	93.38	6.62	0-10
Pan	662	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client:	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference Code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22.12.18	29.12.18	7 days	8.130	22500	210	9.33	9.30
2	22.12.18	29.12.18	7 days	8.128	22500	208	9.24	
3	22.12.18	29.12.18	7 days	8.132	22500	210	9.33	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference Code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22.12.18	19.01.19	28 days	8.135	22500	457	20.31	20.18
2	22.12.18	19.01.19	28 days	8.120	22500	452	20.09	
3	22.12.18	19.01.19	28 days	8.140	22500	453	20.13	

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Test Report on Cement

Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	27.12.18
Sample Submitted By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	42 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	At Site/Plant	Date of Sampling	27.12.18
		Date of Testing	27.12.18

Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
40.00mm	0	0	0.00	100.00	100
25.00mm	0	0	0.00	100.00	-
20.00mm	122	122	4.07	95.93	95-100
10.00mm	1382	1504	50.13	49.87	30-70
4.75mm	912	2416	80.53	19.47	10-35
Pan	490	2906	96.87	3.13	0-5
	94	3000	100.00	0.00	

Remarks :- ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Name	BRUHAT BENGALORE MAHANAGARA PALIKE
Name of Work	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Name of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	27.12.18
Period of Soaking	24 hours	Date of Testing	27.12.18

Sl No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A)	Weight of sturated surface dry sample gm.		661	630	678	
(B)	Weight of oven - dry sample gm.		652	621	670	
(C)	Weight of Pycnometer Filled with water gm		1275	1275	1275	
(D)	Weight of Pycnometer + sample + water gm		1690	1672	1699	
(E)	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.650	2.665	2.638	2.651
(F)	Absorption (%)	$\frac{(A-B)*100}{B}$	1.380	1.449	1.194	1.341

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TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	27.12.18
		Date of Testing	27.12.18

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	221	221	7.37	92.63	90 - 100
2.36 mm	324	545	18.17	81.83	75 - 100
1.18 mm	308	853	28.43	71.57	55 - 90
600 mm	478	1331	44.37	55.63	35 -59
300 mm	821	2152	71.73	28.27	8-30
150 mm	645	2797	93.23	6.77	0 - 10
Pan	203	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project:	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s KRIDL
Sample ID:	Cement
Date of Sample Tested:	04.01.2019
Sample Received By:	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Name	BRUHAT BENGALORE MAHANAGARA PALIKE
Name of Work	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Source/Source	At Site/Plant	Date of Sampling	04.01.2019
Period of Soaking	24 hours	Date of Testing	04.01.2019

Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	625	644	
B	Weight of oven - dry sample gm.	640	615	634	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1680	1685	1682	
	Bulk specific gravity B / (C + A - D)	2.612	2.860	2.675	2.716
	Absorption (%) (A - B) *100 / B	1.563	1.626	1.577	1.589

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete	
Sample Location	At Site/Plant	Date of Sampling	04.01.2019	
		Date of Testing	04.01.2019	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	205	205	6.83	93.17	90 - 100
2.36 mm	315	520	17.33	82.67	75 - 100
1.18 mm	425	945	31.50	68.50	55 - 90
600 mm	485	1430	47.67	52.33	35 -59
300 mm	780	2210	73.67	26.33	8-30
150 mm	680	2890	96.33	3.67	0 - 10
Pan	110	3000			-

Remarks :- ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete	
Sample Location	Plant/At site	**Date of Sampling**	04.01.2019	
		Date of Testing	04.01.2019	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	70	70	0.70	99.30	95 - 100
10.00 mm	4889	4959	49.59	50.41	25 - 55
4.75 mm	4356	9315	93.15	6.85	0 - 10
Pan	685	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	At Site/Plant	Date of Sampling	04.01.2019
		Date of Testing	04.01.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	588	588	5.88	94.12	90-100
10.0	4789	5377	53.77	46.23	40-85
4.75	3890	9267	92.67	7.33	0-10
Pan	733	10000			

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference Code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04.01.2019	11.01.2019	7 days	8.130	22500	281	12.49	12.52
2	04.01.2019	11.01.2019	7 days	8.128	22500	282	12.53	
3	04.01.2019	11.01.2019	7 days	8.137	22500	282	12.53	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 4th to 5th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04.01.2019	01.02.2019	28days	8.132	22500	452	20.09	20.10
2	04.01.2019	01.02.2019	28days	8.134	22500	451	20.04	
3	04.01.2019	01.02.2019	28days	8.129	22500	454	20.18	

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